Classification study guide

1. In classification, taxa or taxon are used. What is a taxa?
2. In bionomial nomenclature, how are the two words spelled and what do they represent?
3. How does a cladogram show the relationship between the different organisms represented?
4. Which Kingdom contains heterotrophs with cell walls of chitin?
5. Compare and contrast the Kingdom Fungi and the Kingdom Plantae.
6. Write the levels of categories in classification starting with the most general and going to the most specific.
7. How has classification changed from Aristotle to Linnaeus to today?
8. Which Kingdom is the only one to have all unicellular organisms?
9. What is the difference between a heterotroph and an autotroph?
10. What is the difference between a porkaryote and an eukaryote?
11. What does sessile and non-motile mean?
12. What are the differences between monocots and dicots in terms of leaves, stems, roots, seeds, and flowers?
13. What is germination?
14. Discuss the various tropisms: geotropism, phototropism, thigmotropism.
15. What is xylem and phloem?
16. What is the difference between an angiosperm and a gymnosperm?
17. What is the difference between the Kingdoms Monera and Protista? What do they have in common?
18. What are the parts of a germinating seed? Name the parts and give the functions.

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